

APPENDIX A: GORMAN, et al.; U.S.S.N. 08/911,423
PROPOSED CLAIMS MARCH 1999

9. (Amended) An isolated or recombinant polynucleotide that:
- a) selectively hybridizes under stringent wash conditions of at least 50° C and less than 500 mM salt to the open reading frame of SEQ ID NO: 1 or 3; and
 - b) encodes a polypeptide that:
 - i) is expressed on activated T cells; and
 - ii) specifically binds a polyclonal antibody generated against SEQ ID NO: 2 or 4.
10. (Amended) The polynucleotide of Claim 9, which:
- a) encodes a mature polypeptide of SEQ ID NO: 2 or 4;
 - b) comprises the mature polypeptide coding portion of SEQ ID NO: 1 or 3;
 - c) comprises the extracellular domain of SEQ ID NO: 2 or 4; or
 - d) comprises the intracellular domain of SEQ ID NO: 2 or 4.
11. (Amended) A recombinant expression or replicating vector comprising said polynucleotide of Claim 9.
12. (Amended) A kit comprising
- a) said polynucleotide of Claim 9; and
 - b) instructions for use or disposal of reagents in said kit.
17. (Amended) A method of producing a polypeptide, comprising expressing said vector of Claim 11, thereby producing said polypeptide.

18. (Amended) A cell comprising said vector of Claim 11.
19. (Amended) A recombinant or isolated polynucleotide of Claim 9, that encodes at least 15 contiguous amino acid residues of SEQ ID NO: 4.
20. (Amended) The polynucleotide of Claim 19, wherein said contiguous amino residues number at least 17.
23. (New) The polynucleotide of Claim 9, wherein said hybridization occurs over the entire open reading frame of SEQ ID NO: 1.
24. (New) The polynucleotide of Claim 9, wherein said polynucleotide:
- a) encodes a polypeptide with a natural sequence of the mature coding portion of SEQ ID NO: 2;
 - b) encodes a polypeptide with a natural sequence of the mature coding portion of SEQ ID NO: 4;
 - c) is isolated from nature;
 - d) encodes a polypeptide comprising 5 or fewer conservative substitutions from a natural sequence of SEQ ID NO: 2; or
 - e) encodes a polypeptide comprising 5 or fewer conservative substitutions from a natural sequence of SEQ ID NO: 4.
25. (New) The polynucleotide of Claim 9, wherein said wash conditions are
- a) at least 65° C;
 - b) less than 150 mM salt; or
 - c) both a) and b).

26. (New) A method of producing a polynucleotide duplex comprising contacting said polynucleotide of Claim 9 with a second polynucleotide for a time sufficient to produce said duplex under stringent wash conditions of at least 60° C and less than 200 mM salt; thereby forming said duplex.

27. (New) The polynucleotide of Claim 9, which is:

- a) is attached to a solid substrate;
- b) is detectably labeled;
- c) is in a sterile composition;
- d) encodes an antigenic polypeptide having at least 12 amino acid residues; or
- e) is synthetically produced.

28. (New) The polynucleotide of Claim 19, which comprises:

- a) at least 57 contiguous nucleotides from the mature protein coding portion of SEQ ID NO: 1 or 3; or
- b) is a variant due to the degeneracy of the genetic code.

29. (New) The polynucleotide of Claim 27, wherein:

- a) said contiguous amino acid residues number at least 21; or
- b) said contiguous nucleotides are from nucleotides 26-165 or nucleotides 191-241 of SEQ ID NO: 4.

30. (New) An isolated or recombinant polynucleotide encoding a polypeptide that:

- a) has a conservative amino acid substitution of a mature polypeptide of SEQ ID NO: 2 or 4;
- b) is a natural allelic variant of the mature native polypeptide of SEQ ID NO: 2 or 4; or
- c) is a species variant of the mature native polypeptide of SEQ ID NO: 2 or 4.

31. (New) The polynucleotide of Claim 30, which is from SEQ ID NO: 4.

32. (New) The polynucleotide of Claim 30, comprising:

- a) nucleotides 124 to 751 of SEQ ID NO: 1; or
- b) nucleotides 54 to 723 of SEQ ID NO: 3.

33. (New) A method of producing a polynucleotide duplex comprising contacting said polynucleotide of Claim 30 with a second polynucleotide for a time sufficient to produce said duplex under stringent wash conditions of at least 60° C and less than 200 mM salt; thereby forming said duplex.

34. (New) A recombinant expression or replicating vector comprising said polynucleotide of Claim 30.

35. (New) A cell comprising said vector of Claim 34.

36. (New) A method of producing an antigenic polypeptide, comprising expressing said vector of Claim 34, thereby producing said polypeptide.

37. (New) A recombinant or isolated polynucleotide that selectively hybridizes to the open reading frame of SEQ ID NO: 1 or 3 under stringent hybridization and wash conditions of at least 50°C, a salt concentration of less than 200 mM, and 50% formamide.

38. (New) The polynucleotide of Claim 37:

- a) wherein said wash conditions are at least 60°C;
- b) that encodes an antigenic polypeptide;
- c) comprises at least 36 contiguous nucleotides of the mature coding portion of SEQ ID NO: 1 or 3; or
- d) comprises at least 20 contiguous amino acids of the mature coding of SEQ ID NO: 4

39. (New) The polynucleotide of Claim 37, further encoding:

- a) a two-fold or less conservative amino acid substitution of a mature polypeptide of SEQ ID NO: 2 or 4;
- b) a natural allelic variant of the native polypeptide of SEQ ID NO: 2 or 4; or
- c) a species variant of the native polypeptide of SEQ ID NO: 2 or 4.

40. (New) A recombinant expression or replicating vector comprising:

- a) said polynucleotide of Claim 37; or
- b) the mature polypeptide of SEQ ID NO: 4.

41. (New) A cell comprising said vector of Claim 40.

42. (New) A method of producing an antigenic polypeptide, comprising expressing said vector of Claim 41, thereby producing said polypeptide.

43. (New) A method of producing a polynucleotide duplex comprising contacting said polynucleotide of Claim 37 with a second polynucleotide for a time sufficient to produce said duplex under stringent wash conditions of at least 60° C and less than 200 mM salt; thereby forming said duplex.